

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-023741**Date Inspected:** 18-May-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Jobsite**CWI Name:** John Pagliero**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** SAS OBG**Summary of Items Observed:**

Quality Assurance inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

1. 9W PP79 W3 Lifting Lug Holes
2. 10W 11W C1 QC-UT
3. 9W 10W D1 R1
4. 10W PP94 E6 Drip Rails
5. 9W 10W E2 (Inside)
6. 8E PP68 Lifting Lug Holes
7. 11E PP98 E6 Drip Rails
8. 7W PP53 W4 #1&4 Lifting Lug Holes VT, MT and UT
9. 7W PP52 W4 #3 Lifting Lug Holes VT, MT and UT
10. 7W PP55 W4 #1-4 Lifting Lug Holes VT, MT and UT

1. 9W PP79 W3 Lifting Lug Holes

The QA Inspector noted and periodically observed ABF Darcell Jackson performing Shielded Metal Arc Welding (SMAW) on the Lifting Lug Holes (LLH) located at 9W PP79 W3. The QA Inspector observed the QC John Pagliero as being present in order to monitor the progress and ensure the welding parameters were within the established WPS. The work is in progress and the QA Inspector noted that the work appeared to be in general

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conformance with the contract documents.

2. 10W 11W C1 (Inside)

The QA Inspector observed QC Inspector Jesse Cayabyab perform Ultrasonic testing on C1 at 10W 11W inside of the OBG. The QA Inspector noted that the work was in progress and appeared to be in general conformance with the contract documents.

3. 9W 10W D1 R1

The QA Inspector noted and periodically observed ABF welder Jorge Lopez performed SMAW on location #1. The QA Inspector observed the QC Inspector monitor the progress and ensure the welding parameters were within the established WPS. The QA Inspector noted that the work was completed on this date and appeared to be in general conformance with the contract documents.

4. 10W PP94 E6 Drip Rails

The QA Inspector noted and periodically observed ABF welder Gil Perlata perform SMAW on the Drip Rail at 10W PP94 E6. The QA Inspector observed the QC inspector monitor the progress and ensure the welding parameters were within the established WPS. The QA Inspector noted that the work was completed on this date and appeared to be in general conformance with the contract documents.

5. 9W 10W E2 (Inside)

The QA Inspector randomly observed ABF welding operators Song Tao Huang and Jin Quan Huang performing Flux Core Arc Welding w/gas (FCAW-G) operations on face E2 inside of the OBG. The QA Inspector observed the QC Inspector Jesse Cayabyab as being present in order to monitor the progress and ensure the welding parameters were within the established WPS. The work progressed throughout the QA Inspector's shift. Upon completion the QA Inspector noted that the work was in progress and appeared to be in general conformance with the contract documents.

6. 8E PP68 Lifting Lug Holes

The QA Inspector noted and periodically observed ABF Jason Collins performing SMAW on LLH's located at 8E PP68. The QA Inspector observed the QC Fred Von Hoff as being present in order to monitor the progress and ensure the welding parameters were within the established WPS. The work is in progress and the QA Inspector noted that the work appeared to be in general conformance with the contract documents.

7. 11E PP98 E6 Drip Rails

The QA Inspector noted and periodically observed ABF welder Gil Perlata perform SMAW on the Drip Rail at 10W PP94 E6. The QA Inspector observed the QC inspector monitor the progress and ensure the welding parameters were within the established WPS. The QA Inspector noted that the work was completed on this date and appeared to be in general conformance with the contract documents.

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8. 7W PP53 W4 #1&4 Lifting Lug Holes VT, MT and UT

The QA Inspector performed a Magnetic Particle Test (MT) on the LLH's #1&4 at 7W PP53 W4. The QA Inspector tested 10% of the weld to verify the weld and testing by QC meet the requirements of the contract documents. The QA Inspector noted that the work appeared to be free of defects and was found to be acceptable and in general conformance with the contract documents. Upon completion of the MT, the QA Inspector performed Ultrasonic Testing utilizing a G.E./Krautkramer USN 60. The QA Inspector also utilized the UT Procedure identified as SE-UT-D1.5-CT-100 Rev.4 during the examination. Upon completion of the testing, it was noted by the QA Inspector that no indications were present and the work was found to be acceptable.

9. 7W PP52 W4 #3 Lifting Lug Holes VT, MT and UT

The QA Inspector performed a Magnetic Particle Test (MT) on LLH #3 at 7W PP52 W4. The QA Inspector tested 10% of the weld to verify the weld and testing by QC meet the requirements of the contract documents. The QA Inspector noted that the work appeared to be free of defects and was found to be acceptable and in general conformance with the contract documents. Upon completion of the MT, the QA Inspector performed Ultrasonic Testing utilizing a G.E./Krautkramer USN 60. The QA Inspector also utilized the UT Procedure identified as SE-UT-D1.5-CT-100 Rev.4 during the examination. Upon completion of the testing, it was noted by the QA Inspector that no indications were present and the work was found to be acceptable.

10. 7W PP55 W4 #1-4 Lifting Lug Holes VT, MT and UT

The QA Inspector performed a Magnetic Particle Test (MT) on LLH's #1-4 at 7W PP55 W4. The QA Inspector tested 10% of the weld to verify the weld and testing by QC meet the requirements of the contract documents. The QA Inspector noted that the work appeared to be free of defects and was found to be acceptable and in general conformance with the contract documents. Upon completion of the MT, the QA Inspector performed Ultrasonic Testing utilizing a G.E./Krautkramer USN 60. The QA Inspector also utilized the UT Procedure identified as SE-UT-D1.5-CT-100 Rev.4 during the examination. Upon completion of the testing, it was noted by the QA Inspector that no indications were present and the work was found to be acceptable.

Summary of Conversations:

As noted above

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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

Inspected By: Frey,Doug

Quality Assurance Inspector

Reviewed By: Levell,Bill

QA Reviewer